

## ACRONYMS AND ABBREVIATIONS

|                  |   |
|------------------|---|
| $^3\text{H}$     | tritium   |
| $\mu\text{g/kg}$ | micrograms per kilogram   |
| $\mu\text{g/L}$  | micrograms per liter  |
| AA               | Anomaly Area  |
| Air SWAT         | Air Quality Solid Waste Assessment Test                               |
| AM               | action memorandum   |
| APHO             | aerial photograph   |
| ASTM             | American Society of Testing and Materials                             |
| B[a]P            | benzo(a)pyrene  |
| $\text{BCF}_i$   | soil to invertebrate bioconcentration factor                          |
| $\text{BCF}_p$   | soil to plant bioconcentration factor                                 |
| BCT              | Base Realignment and Closure Cleanup Team                             |
| BERA             | baseline ecological risk assessments                                  |
| BHHRA            | baseline human health risk assessment                                 |
| bgs              | below ground surface  |
| BNI              | Bechtel National, Inc.  |
| BRAC             | Base Realignment and Closure  |
| BSR              | Biological site reconnaissance  |
| BTEX             | benzene, toluene, ethylbenzene, and total xylenes                     |
| $\text{BTF}_a$   | prey to predator bioconcentration factor                              |
| BW               | body weight   |
| C/I              | construction/industrial   |
| CARB             | California Air Resources Board  |
| $\text{cc/min}$  | cubic centimeter per minute   |
| CCR              | California Code of Regulations  |
| CDM Federal      | CDM Federal Programs Corporation                                      |
| CERCLA           | Comprehensive Environmental Response, Compensation, and Liability Act |
| CDD              | dibenzo n dioxin  |
| CDF              | dibenzo n furan   |
| CDFG             | California Department of Fish and Game                                |
| CFR              | Code of Federal Regulations   |
| CIWMB            | California Integrated Waste Management Board                          |
| CLEAN            | Comprehensive Long-Term Environmental Action Navy                     |
| cm               | centimeter  |
| $\text{cm}^2$    | square centimeters  |
| CNDDB            | California Natural Diversity Data Base                                |
| CNPS             | California Native Plant Society                                       |
| COPC             | chemical of potential concern   |
| COPEC            | chemical of potential ecological concern                              |
| CPT              | cone penetrometer test  |
| CRWQCB           | California Regional Water Quality Control Board                       |
| $\text{CSF}_o$   | oral cancer slope factor  |
| CSM              | conceptual site model   |
| CSS              | coastal sage scrub  |
| CTO              | contract task order   |
| DHS              | Department of Health Services   |
| DoN              | Department of the Navy  |

|                     |  |
|---------------------|--|
| DPT                 | direct push technology                                 |
| DQOs                | data quality objectives                                |
| DTSC                | Department of Toxic Substances Control                 |
| Earth Tech          | Earth Tech, Inc.                                       |
| EFAW                | Engineering Field Activity West                        |
| EM                  | electromagnetic  |
| EOD                 | explosive ordnance disposal                            |
| EF                  | exposure frequency                                     |
| EPA                 | Environmental Protection Agency                        |
| EPC                 | exposure point concentration                           |
| ERA                 | Ecological Risk Assessment                             |
| ESI                 | Expanded Site Investigation                            |
| FAC                 | facultative wetlands plant                             |
| FACW                | facultative wetlands                                   |
| FFA                 | Federal Facilities Agreement                           |
| FID                 | flame ionization detector                              |
| FS                  | feasibility study                                      |
| FWS                 | Fish and Wildlife Service                              |
| GI                  | gastrointestinal                                       |
| HHRA                | human health risk assessment                           |
| HPCDD               | heptachlorodibenzodioxin                               |
| HPCDF               | heptachlorodibenzofuran                                |
| HQ                  | hazard quotient  |
| HRA                 | Historical Radiological Assessment                     |
| HSA                 | hollow-stem auger                                      |
| HXCDF               | hexachlorodibenzofuran                                 |
| IDW                 | investigation-derived waste                            |
| in. Hg              | inches of mercury                                      |
| IR                  | ingestion rate   |
| IRA                 | Interim Removal Action                                 |
| IRP                 | Installation Restoration Program                       |
| IT                  | The IT Group   |
| JEG                 | Jacobs Engineering Group                               |
| kg                  | kilogram   |
| Kr                  | krypton  |
| LEL                 | lower explosive limit                                  |
| LL                  | liquid limit   |
| LOAEL               | lowest observed adverse effect level                   |
| m <sup>3</sup> /day | cubic meters per day                                   |
| MCAS                | Marine Corps Air Station                               |
| MCL                 | maximum contaminant level                              |
| MF                  | modifying factor                                       |
| mg/kg               | milligrams per kilogram                                |
| mg/L                | milligrams per liter                                   |
| mph                 | miles per hour   |
| MSCR                | miscellaneous refuse                                   |
| MSL                 | mean sea level   |
| MTBE                | methyl tert-butyl ether                                |
| MW                  | monitoring well  |
| NAVFAC EFD PACIFIC  | Pacific Division, Naval Facilities Engineering Command |
| PEARL HARBOR HI     |  |

|                |  |
|----------------|--|
| NCP            | National Oil and Hazardous Substances Pollution Contingency Plan |
| NFEC SW SDIEGO | Southwest Division, Naval Facilities Engineering Command         |
| NOAEL          | no observed adverse effect level                                 |
| NPL            | National Priorities List   |
| NRWQC          | National recommended water quality criteria                      |
| OBL            | obligate wetlands plant  |
| OCHCS          | Orange County habitat classification system                      |
| OCDD           | octachlorodibenzodioxin  |
| OCDF           | octachlorodibenzofuran   |
| OHM            | OHM Remediation Services   |
| OHWM           | ordinary high water mark   |
| ORNL           | Oak Ridge National Laboratory                                    |
| PAHs           | polynuclear aromatic hydrocarbons                                |
| pcf            | pounds per cubic foot  |
| pCi/L          | picoCuries per liter   |
| pg/g           | picograms per gram   |
| PID            | photoionization detector   |
| PL             | plastic limit  |
| ppbv           | parts per billion by volume                                      |
| ppm            | parts per million  |
| ppmv           | parts per million by volume                                      |
| PRE            | preliminary risk evaluation                                      |
| PRG            | preliminary remediation goal                                     |
| PVC            | polyvinyl chloride   |
| PZ             | piezometer   |
| Ra             | radium   |
| RAGS           | Risk Assessment Guidance for Superfund                           |
| RfC            | reference concentration  |
| RfD            | reference dose   |
| RI             | remedial investigation   |
| RME            | reasonable maximum exposure                                      |
| RSE            | removal site evaluation  |
| SAIC           | Science Applications International Corporation                   |
| SAP            | sampling and analysis plan                                       |
| SARA           | Superfund Amendments and Reauthorization Act                     |
| SCAQMD         | South Coast Air Quality Management District                      |
| SERA           | screening ecological risk assessment                             |
| SMDP           | scientific management decision point                             |
| SOP            | CLEAN II standard operating procedure                            |
| Sr             | strontium  |
| SRA            | screening risk assessment  |
| SPRE           | Screening Preliminary Risk Evaluation                            |
| SSPRE          | Site Specific Preliminary Risk Evaluation                        |
| SPT            | standard penetration test  |
| SSL            | soil screening levels  |
| STLC           | soluble threshold limit concentration                            |
| SUF            | site use factor  |
| SVOC           | semivolatile organic compound                                    |
| TCDD           | tetrachlorodibenzodioxin   |
| TCLP           | toxicity characteristic leaching potential                       |
| TEF            | toxicity equivalency factor                                      |

|       |                                       |
|-------|---------------------------------------|
| TEQ   | toxicity equivalency quotient         |
| Th    | thorium                               |
| TOC   | top of casing                         |
| TPH   | total petroleum hydrocarbons          |
| TRV   | toxicity reference value              |
| tsf   | tons per square foot                  |
| TTLc  | total threshold limit concentration   |
| UCL   | upper confidence limit                |
| UF    | uncertainty factor                    |
| U.S.  | United States                         |
| USACE | United States Army Corps of Engineers |
| USCS  | Unified Soil Classification System    |
| VOCs  | volatile organic compounds            |
| WHO   | World Health Organization             |
| WOE   | Weight of Evidence                    |